**Software Requirement Specification**

***for***

**<Client>-<Project Name>**

**Ver. <Version no.>**

**Released on <dd-mmm-yy>**



**Synoverge Technologies. Pvt. Ltd.**

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**Document History**

| **Ver. No** | **Release Date** | **Current Project Phase** | **Created By / Modified By and Date** | **Reviewed By and Date** | **Approved By and Date** | Remarks and **Changes Made** |
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| 1.0 | <dd-mmm-yy> | <Analysis> | <Team Lead/Manager>,  <dd-mmm-yy> | <QA Lead >, <dd-mm-yy> | <Practice Head/Manager >, <dd-mm-yy> |  |
|  |  |  |  |  |  |  |

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# Introduction

## Purpose of Requirement Specifications

The purpose of this document is to specify in detail, the software requirements for <Project Name> gathered from various discussion during requirement gathering. This document will serve as a **single source of information** for all software requirements – functional and non-functional hereafter.

This document will serve as baseline requirements for acceptance by QA and UAT teams.

## Definitions, Abbreviations, Acronyms

The table below provides the list of acronyms used across this document and its definition.

| **Sr. No.** | Acronyms | **Definitions** |
| --- | --- | --- |
|  |  |  |
|  |  |  |

## Intended Audience

<The intended audience includes the project sponsors, program management team, development team and QA team.>

## Document Overview

This document attempts to provide as much detail as possible to guide reader to design the solution, it includes the following sections: -

|  |  |
| --- | --- |
| **Ch. No** | **Brief Description** |
| 1 | (Introduction) provides an overview of the entire SRS document |
| 2 | (Overall Description) describes the application that will be developed; it includes product perspective, interfaces, application features, assumptions and dependencies; |
| 3 | (Interfaces required) describes the interfaces required for the system in terms of hardware interfaces, software interfaces, communication interfaces etc. |
| 4 | (Specific Requirements) describes the specific requirement of the system to be developed. |
| 5 | (Non-Functional Requirements) describes the general system requirements. |

## References

The table below provides the list of references used for preparing this document.

| **Sr. No.** | Reference | **Repository Path** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

# Project Overview

## Project Scope

<Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals. State whether this product is a follow-on member of a product family, a replacement for certain existing systems, or a new, self-contained product. Document should cover the scope of current project only. A simple diagram that shows the major components of the overall system, subsystem interconnections, and external interfaces can be helpful.>

## Project Scope Exclusions

<Provide list of features are excluded from current scope of the project. Also state if any of the feature provision is requested but it will be implemented in upcoming phases>

## Product Features/Functions

<Summarize the major features the product contains or the significant functions that it performs or lets the user perform. Details will be provided in Section 4 (Specific Requirement), so only a high level summary is needed here. Organize the functions to make them understandable to any reader of the SRS. A picture of the major groups of related requirements and how they relate, such as a top level flow diagram is effective.>

## User Characteristics

<Identify the various user classes that you anticipate will use this product. User classes may be differentiated based on frequency of use, subset of product functions used, technical expertise, security or privilege levels, educational level, or experience. Describe the pertinent characteristics of each user class. Certain requirements may pertain only to certain user classes. Distinguish the favored user classes from those who are less important to satisfy. >

**For Example:**

|  |  |  |
| --- | --- | --- |
|  | **Role** | **Description** |
|  | Business User | * Search the opportunities and browse estimation data for all opportunities in Completed state * Will have access only to unrestricted opportunities Will have access to certain set of reports |
|  | All User  All Authenticated users | * Search the opportunities and browse estimation data for all opportunities in Completed state * Will have access only to unrestricted opportunities   This |

>

## Operating Environment

<Describe the environment in which the software will operate, including the hardware platform, operating system and versions, and any other software components or applications with which it must peacefully coexist. A diagram of how this application will fit in overall eco system can be provided. Specify any hardware & software including version available with customer that to be reused for this application. >

## Design and Implementation Constraints

<Describe any items or issues that have to be considered in architecture and design of the solution. These might include: corporate or regulatory policies; hardware limitations (timing requirements, memory requirements); data volume expected; interfaces to other applications; specific technologies, tools, and databases to be used; parallel operations; language requirements; communications protocols; security considerations; design conventions or programming standards (for example, if the customer’s organization will be responsible for maintaining the delivered software). >

## External Interface Requirements



### User Interfaces

<Describe the logical characteristics of each interface between the software product and the users. This may include sample screen images, any GUI standards or product family style guides that are to be followed, screen layout constraints, standard buttons and functions (e.g., help) that will appear on every screen, keyboard shortcuts, error message display standards, and so on. Define the software components for which a user interface is needed. Details of the user interface design should be documented in a separate user interface specification. >

### Hardware Interfaces

<Describe the logical and physical characteristics of each interface between the software product and the hardware components of the system. This may include the supported device types, the nature of the data and control interactions between the software and the hardware, and communication protocols to be used. >

### Software Interfaces

<Describe the connections between this product and other specific software components (name and version), including databases, operating systems, tools, libraries, and integrated commercial components. Identify the data items or messages coming into the system and going out and describe the purpose of each. Describe the services needed and the nature of communications. Refer to documents that describe detailed application programming interface protocols. Identify data that will be shared across software components. If the data sharing mechanism must be implemented in a specific way (for example, use of a global data area in a multitasking operating system), specify this as an implementation constraint.>

### Communication Interfaces

<Describe the requirements associated with any communications functions required by this product, including e-mail, web browser, network server communications protocols, electronic forms, and so on. Define any pertinent message formatting. Identify any communication standards that will be used, such as FTP or HTTP. Specify any communication security or encryption issues, data transfer rates, and synchronization mechanisms.>

## Assumptions and Dependencies

<List any assumed factors (as opposed to known facts) that could affect the requirements stated in the SRS. These could include third-party or commercial components that you plan to use, issues around the development or operating environment, or constraints. The project could be affected if these assumptions are incorrect, are not shared, or change. Also identify any dependencies the project has on external factors, such as software components that you intend to reuse from another project. >

# Specific Requirements

<This template illustrates organizing the functional requirements for the product by system features, the major services provided by the product. You may prefer to organize this section by use case, mode of operation, user class, object class, functional hierarchy, or combinations of these, whatever makes the most logical sense for your product. >

## User Groups/Roles

<The following are the types of user who will access the system after login.>

|  |  |  |
| --- | --- | --- |
|  | **Role** | **Description** |
|  | <User Role Name 1> |  |
|  | <User Role Name 2> |  |

## User & Feature Access Matrix

<The following is the user permission matrix to access specific feature/module.

|  |  |  |  |
| --- | --- | --- | --- |
| **Features** | **<User Role Name 1>** | **<User Role Name 2>** | **<User Role Name 3>** |
| <Feature 1> | Full Access / Read Only | Full Access / Read Only | Full Access / Read Only |
| <Feature 2> | Full Access / Read Only | Full Access / Read Only | Full Access / Read Only |

>

## General Requirements

### Requirement #1

|  |  |
| --- | --- |
| **Requirement ID** |  |
| **Requirement Type** | Entry, Report, Interface/Integration   * Interfaces / Integration Points (batch, real time, manual, automated) |
| **Priority** | [Mention from the following values]:   * <High (Requirements are Critical or Mandatory for the System)/ * Medium/ * Low (Requirements need to be fulfilled but can be taken at low priority)/ * Optional (Requirements may or may not fulfilled, good to have feature although the client has not asked for it)> |
| **Reference** | < Provide a hyperlink to the reference document. > |
| **User Characteristics / Actors** |  |
| **Pre-Conditions** | <Describe the state of the system before this use case starts. For example, a valid user is logged in to the system.> |
| **Requirement description/Business Flow/Primary Flow** | <Mention the requirement description the following structured format.   * Input * Description/ Flow * Output   This is optional. > |
| **Alternate Flow** | <User may reach to this functionality from different path/page> |
| **Post Conditions / Form level validations / integrations** | <Success, Failure> |
| **Special Requirement** | <A Special Requirement is typically a non-functional requirement that is specific to a functionality.  (volume/no. of records, response time, no. of users, frequency of use, operating environment, extensibility, concurrency, access control/security, archival, audit trail, logging, data migration, user experience expectations, etc. )  > |
| **Assumptions & Dependencies** |  |

<Screen design>

#### Detail Requirement #1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Field** | **Control Type** | **[DB Table Field]** | **Description** | **Business Validation/Constraints** |
|  |  |  |  |  |  |

### Requirement # 2

|  |  |
| --- | --- |
| **Requirement ID** |  |
| **Requirement Type** | Entry, Report, Interface/Integration   * Interfaces / Integration Points (batch, real time, manual, automated) |
| **Priority** | [Mention from the following values]:   * <High (Requirements are Critical or Mandatory for the System)/ * Medium/ * Low (Requirements need to be fulfilled but can be taken at low priority)/ * Optional (Requirements may or may not fulfilled, good to have feature although the client has not asked for it)> |
| **Reference** | < Provide a hyperlink to the reference document. > |
| **User Characteristics / Actors** |  |
| **Pre-Conditions** | <Describe the state of the system before this use case starts. For example, a valid user is logged in to the system.> |
| **Requirement description/Business Flow/Primary Flow** | <Mention the requirement description the following structured format.   * Input * Description/ Flow * Output   This is optional. > |
| **Alternate Flow** | <User may reach to this functionality from different path/page> |
| **Post Conditions / Form level validations / integrations** | <Success, Failure> |
| **Special Requirement** | <A Special Requirement is typically a non-functional requirement that is specific to a functionality.  (volume/no. of records, response time, no. of users, frequency of use, operating environment, extensibility, concurrency, access control/security, archival, audit trail, logging, data migration, user experience expectations, etc. )  > |
| **Assumptions & Dependencies** |  |

<Screen design>

#### Detail Requirement #2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Field** | **Input/output** | **Description** | **Business Validation/Constraints** |
|  |  |  |  |  |

## Screen/Module Requirement

### Requirement #1

|  |  |
| --- | --- |
| **Requirement ID** |  |
| **Requirement Type** | Entry, Report, Interface/Integration   * Interfaces / Integration Points (batch, real time, manual, automated) |
| **Priority** | [Mention from the following values]:   * <High (Requirements are Critical or Mandatory for the System)/ * Medium/ * Low (Requirements need to be fulfilled but can be taken at low priority)/ * Optional (Requirements may or may not fulfilled, good to have feature although the client has not asked for it)> |
| **Reference** | < Provide a hyperlink to the reference document. > |
| **User Characteristics / Actors** |  |
| **Pre-Conditions** | <Describe the state of the system before this use case starts. For example, a valid user is logged in to the system.> |
| **Requirement description/Business Flow/Primary Flow** | <Mention the requirement description the following structured format.   * Input * Description/ Flow * Output   This is optional. > |
| **Alternate Flow** | <User may reach to this functionality from different path/page> |
| **Post Conditions / Form level validations / integrations** | <Success, Failure> |
| **Special Requirement** | <A Special Requirement is typically a non-functional requirement that is specific to a functionality.  (volume/no. of records, response time, no. of users, frequency of use, operating environment, extensibility, concurrency, access control/security, archival, audit trail, logging, data migration, user experience expectations, etc. )> |
| **Assumptions & Dependencies** |  |

<Screen design>

#### Detail Requirement #1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Field** | **Input/output** | **Description** | **Business Validation/Constraints** |
|  |  |  |  |  |

### Requirement #2

|  |  |
| --- | --- |
| **Requirement ID** |  |
| **Requirement Type** | Entry, Report, Interface/Integration   * Interfaces / Integration Points (batch, real time, manual, automated) |
| **Priority** | [Mention from the following values]:   * <High (Requirements are Critical or Mandatory for the System)/ * Medium/ * Low (Requirements need to be fulfilled but can be taken at low priority)/ * Optional (Requirements may or may not fulfilled, good to have feature although the client has not asked for it)> |
| **Reference** | < Provide a hyperlink to the reference document. > |
| **User Characteristics / Actors** |  |
| **Pre-Conditions** | <Describe the state of the system before this use case starts. For example, a valid user is logged in to the system.> |
| **Requirement description/Business Flow/Primary Flow** | <Mention the requirement description the following structured format.   * Input * Description/ Flow * Output   This is optional. > |
| **Alternate Flow** | <User may reach to this functionality from different path/page> |
| **Post Conditions / Form level validations / integrations** | <Success, Failure> |
| **Special Requirement** | <A Special Requirement is typically a non-functional requirement that is specific to a functionality.  (volume/no. of records, response time, no. of users, frequency of use, operating environment, extensibility, concurrency, access control/security, archival, audit trail, logging, data migration, user experience expectations, etc. ) > |
| **Assumptions & Dependencies** |  |

<Screen design>

#### Detail Requirement #2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Field** | **Input/output** | **Description** | **Business Validation/Constraints** |
|  |  |  |  |  |

# Non-Functional Requirements

<List down all the key NFR points to be addressed in TAD>

# Analysis Models

<Optionally, include any pertinent analysis models, such as data flow diagrams, state-transition diagrams, and/or ~~s~~equence diagrams>